ORD New Solutions

This Issue:

USP Class VI Approved

Parker Fluorocarbon V1274-75

Today's constant advancements in medical technology present a plethora of sealing challenges in the Life Sciences Industry. The most critical concern normally faced in medical technology is the purity of a seal. While some medical applications may never touch human tissue or fluids, deeming standard material selection as appropriate, more critical applications require elastomers to be manufactured and packaged with the utmost "clean" care.

Impurities in a seal may react with tissue or fluid, causing toxins or carcinogens to leach out into the patient. Because of these life threatening risks, engineers require materials with few if any impurities.

Elastomers selected for critical applications must consist of "clean" ingredients. These ingredients are outlined by the United States Pharmacopeia (USP), the official standard setting au-

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NORSOK M-710 Approved Parker Materials

For decades, Parker Hannifin Seal Group has been providing leading edge elastomer technology to the Energy, Oil and Gas Industry. With the rise of critical applications and increased requirements, Parker has taken the initiative to have specialized elastomers tested and certified to NORSOK standards, providing customers with the material and requirements needed.

NORSOK is a set of standards set by the Norwegian Petroleum Industry to outline and secure adequate safety, as well as cost efficient needs for the Petroleum Industry. NORSOK M-710 calls out the requirements for critical rubber sealing materials in applications such as subsea use, control systems and valves. It provides standards for explosive decompression (ED) testing and sour gas (H2S) aging on elastomers. These tests give insight to the performance and life expectancy of a seal in various EOG applications.

Parker O-Ring Division and ESD enlisted MERL, Ltd., (Materials Engineering Research Laboratory), an independent research laboratory located in the United Kingdom, to conduct stringent NORSOK tests on Parker's various EOG materials. As a result, Parker's EOG materials were found to pass, if not exceed expectations and requirements needed in the industry. See the charts below for Parker materials that are NORSOK approved.

For test information or help selecting the correct Parker O-Ring Elastomer for your application, call and speak to one of our Applications Engineers at 859-335-5101.

Approved to RGD Specification

Elastomer	Type	10 Cycles	NORSOK
KB163-90	HNBR	3100	Pass
N4007-90	HNBR	2222	Pass
V1041-85	TFE	3100	Pass
V1238-95	FKM	3100	Pass

Approved to H_2S Ratings

*Certificate Available Upon Request

Material	Type	NORSOK Acceptance Criteria		
		Tensile	Visual	Volume
FF102	FFKM	Pass	Pass	Pass
FF200	FFKM	Pass	Pass	Pass
FF202	FFKM	Pass	Pass	Pass
KB163	HNBR	Pass	Pass	Pass
KA183	HNBR	Pass	Pass	Pass
N4007	HNBR	Pass	Pass	Pass
N4263	XNBR	Pass	Pass	Pass
V1041	TFE	Pass	Pass	Pass
V1289	TFE	Pass	Pass	Pass
V8534	FFKM	Pass	Pass	Pass
V8588	FFKM	Pass	Pass	Pass
VP103	TFE	Pass	Pass	Pass
VP104	TFE	Pass	Pass	Pass

New Parker Material Developed for High Purity Plasma Environments in Semicon Industry

New Parker Parofluor Ultra, FF370-75

FF370-75 is a black, opaque, non-filled perfluoroelastomer specifically formulated by Parker for high purity semiconductor processing up to 300°C. This material was developed for aggressive oxygen and fluorine plasma applications requiring minimal erosions and particle generation. Due to the purity and unique properties of the compound, this material minimizes the potential for particle generation in oxygen and fluorine rich plasmas. Through unique compounding techniques, the level of ionic contaminants is also reduced. It is recommended for static as well as dynamic applications in deposition processes such as CVD, HDPCVD, SACVD, PECVD as well as etching and ashing processes.

Benefits:

- Non-filled
- Minimal metallic ion content
- Ultra high purity and low extractables
- Minimal particle generation
- Very low erosion rate with excellent resistance to oxygen and fluorine plasmas
- Excellent performance up to 300°C
- Products include O-rings, bonded gate valve doors, slit valve doors and molded shapes

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thority on health care products manufactured and distributed in the U.S.A. USP Class VI states that compounds must consist of ingredients with clear histories of biocompatibility and meet tighter requirements for leachables.

Parker's V1274-75 , primarily developed for pharmaceutical processing, is USP Class VI approved. This fluorocarbon material provides good steam resistance for sterilization cycles, USP Class VI biocompatibility, FDA status, low extractables (all of which reduce the risk of contaminating a customer's product) and good compression set (long life in application / reduced maintenance costs). While V1274-75's primary application is in pharmaceutical processing, it can also be used in steam sterilizers and disposable medical devices.

To get a sample of this material, please call your inside sales representative today. ▪

For Quick and Easy Downloads of Test Reports, Newsletters, Success Stories and the latest information on Parker O-Ring products, log on to the O-Ring Distributor Forum!

ORD Launches Quarterly Webcast

Parker O-Ring Division is now offering quarterly webcasts to train distributors on topics from "How to use ORD 5700 more effectively" to "New Outsource Stock Program". Each topic will relate to a new product, program or other viable issue to help communicate and teach the necessary skills and shortcuts to make your daily tasks easier as well as help train new distributor employees and expand knowledge of those already experienced.

Notifications on the webcasts will go out quarterly electronically in addition to a flyer to be posted at all distributor locations. On average, three separate days and times will be offered for training. All distributors are encouraged to take advantage of this free service.

ORD Distributor Forum

Your Key to the Latest News, Products and Programs!

Still not using the O-Ring Distributor Forum? Having trouble finding it?

- Go to PHConnect
- Log on
- Select Distributor Forum under "My Forums"

Can't find what you need on the forum? Let us know.

Parker O-Ring Product School

April 22-24, 2008

Are you getting what you need?

For suggestions, success stories or topic ideas on this or other ORD communications, contact Samantha Sexton at ssexton@parker.com or mail your ideas to:
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